SOV/75-13-4-26/29 The Separation of Iron and Copper Cations by Paper Chromatography in the Presence of Large Amounts of Carbohydrates

a rising chromatogram (Ref 2) on chromatographic paper from the factory imeni Volodarskiy. A mixture of acetone-hydrochloric acid-water at the ratio 87:8:5 served as a solvent. At other ratios of the three solvents the results become less distinct. The R_f values obtained this way for the two cations agree well with the data from publications (Ref 3). The chromatograms are developed by spraying with an ammonium sulfide solution (Ref 2). The separation of iron and copper in the presence of carbohydrates was investigated at various concentrations of the latter. The presence of glucose and saccharose also in larger amounts does not exert any influence on the passage of the ions of trivalent iron. The R_f value remains constant within the measuring accuracy in all experiments. Glucose and saccharose

in the measuring accuracy in all experiments. Clucose and sacharose, however, influence to a high degree the mobility of the ions of bivalent copper. In the presence of these carbohydrates the flow rate of the copper ions is considerably smaller. The higher the concentration of the sugar, the strenger this effect will be. Saccharose effects a higher retardation than glucose. The chromatographic zones of the cationites Felth

Card 2/4

SOV/75-13-4-26/29

The Separation of Iron and Copper Cations by Paper Chromatography in the Presence of Large Amounts of Carbohydrates

and Cu²⁺ in the development with ammonium sulfide were clearly marked in all experiments in the presence as well as in the absence of carbohydrates. Most probably in the presence of glucose and saccharose the distribution coefficient of the copper ion between the stationary and the traveling phase of the solvent is changed, whereas the distribution coefficient of the iron ion remains unchanged. From these investigations may be concluded that paper chromatography may be used for the separation and determination of Fe³⁺ and Cu²⁺ in solutions containing glucose and saccharose. The identification by means of the R_f value is, however, possible only in the case of iron. In the case of copper the retarding effect of the carbohydrates must be taken into account. There are 1 figure, 1 table, and 5 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti (Moscow Technological Institute for Food Industry)

Card 3/4

SOV/75-13-4-26/29

The Separation of Iron and Copper Cations by Paper Chromatography in the Presence of Large Amounts of Carbohydrates

SUBMITTED:

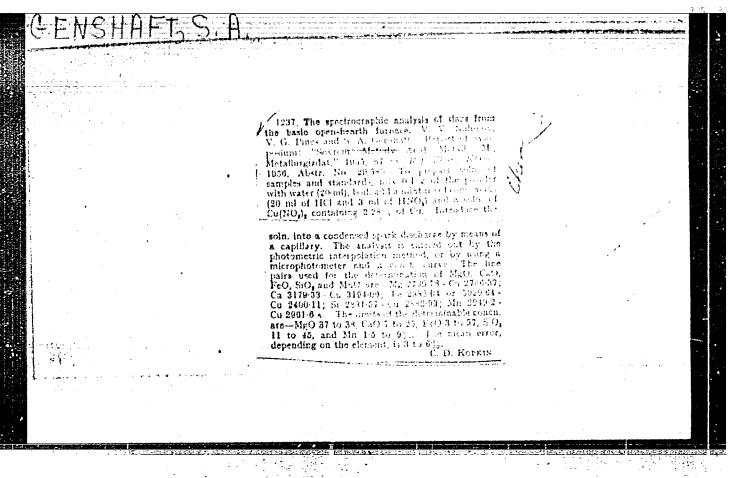
April 24, 1957

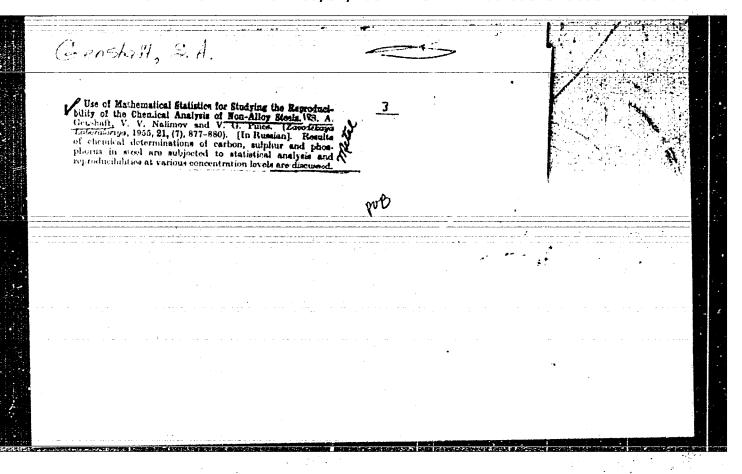
Iron ions—Separation
 Copper ions—Separation
 Chromatographic analysis—Performance
 Carbohydrates
 Chemical effects
 Ammonium sulfide solutions—Applications

Card 4/4

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AUTHORS:

Ionova, K.I., Genshaft, S.A.

32-24-4-34/67

TITLE:

A Method for the Spectral Analysis of Cast Iron Graphite on Magnesium (Metod spektral nogo analiza chuguna i grafita na

magniy)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 459-460 (USSR)

ABSTRACT:

In the course of the determination of magnesium in cast iron the fine metal chips on the sand bath are dissolved in hydrochloric-and nitric acid (1:1) and the dissolved magnesium is examined on a ISP-28 spectrograph. A IG-2 generator with carbon electrodes is used as a light source. Standard samples made from synthetic standard magnesite Nr 82 are used, the preparation of which is described. The error limit of this method is given as being + 5.8%; magnesium can be determined within a concentration interval of 0.02-0.45% in cast iron. Analysis of six samples takes 4%/2 hours. In the case of the determination of magnesium in graphite powder, the latter is annealed for 2 hours at 1000°C; there follows a treatment with hydrofluoric acid, melting in soda at 1000°C for 5 minutes, and dissolution in hydrochloric acid (1:2). Standard samples of magnesite, the production of

Card 1/2

A Method for the Spectral Analysis of Cast Iron Graphite on Magnesium

32--24-4-34/67

which is described, are again used. The employment of an "inner standard" in form of a chromous chloride solution is also necessary. The other conditions are similar to those applying in the case of the determination of magnesium in cast iron. The square deviation is mentioned as being + 2.53% (relative). Magnesium can be determined in quantities of from 0.5 - 11% in graphite powder, in which case 6 hours are needed for the investigation of five samples. Investigations were carried out in cooperation with N.R. Laletina. There are 4 references, 4 of which are Soviet.

ASSOCIATION:

Kazakhskiy metallurgicheskiy zarod (Kazakh Metallurgical Plant)

Graphite powders--Spectra 2. Magnesium--Determination
 Spectrum analyzers--Performance 4. Hydrofluoric acid
 Chemical effects

Card 2/2

KAMBULATOVA, P.M.; CENSHAFT, S.A.

Work of the Central Laboratory of the Kazakh Metallurgical Plant. Zav.lab. 28 no.4:513 '62. (MIRA 15:5)

1. Nachalinik tsentralinoy laboratorii Kazakhskogo metallurgicheskogo zavoda (for Kambulatova). 2. Nachalinik spektrokhimicheskoy laboratorii Kazakhskogo metallurgicheskogo zavoda (for Genshaft).

(Kasakhstan-Metallurgical laboratories)

Spectrographic and furnaces, and chromo- no.0:1089-1092 16	lysis of hearths, basic slags mium-magnesite refractories. 4.	of open-hearth Mov. lab. 30 (MIRA 18:3)	
1. Kezakhskiy meta	llurgicheskiy zavod.		
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80532 18. 7200 \$/126/60/009/05/013/025 Livshits, L.D., Genshart, Yu.S. and Ryabinin, Yu.N. 5.2300 AUTHORS: The Polymorphic Transformation of Cerium Under TITLE: Pressure Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 5, PERIODICAL: pp 726 - 732 (USSR) Experiments were carried out by the method of displacement ABSTRACT: of a piston in apparatus for measuring the volume compressibility of solid bodies (Figure 1). This consists of a hydraulic press, a piston and a piezometric device, together with measuring apparatus. Cerium of three compositions was used - Nr 1 contained La < 0.01%, Nd & 0.5%, Pr < 0.5%, Fe < 0.02%; Nr 2 was that used in earlier work (Ref 2); Nr 3 contained La < 0.3%, Nd < 0.75%, Pr < 0.75%, Fe < 0.1%. Curves of displacement of the piston ΔH against the force F were drawn and these are reproduced in Figure 2. These show that there is a strongly expressed hysteresis effect. In the region of the phase transformation the pressure of transformation p_n is determined as the mean arithmetic and p_2 , where p_1 and p₂ value of Card1/3

80532 **\$/126/60/009/05/013/025**

The Polymorphic Transformation of Cerium Under Pressure the transition from one phase to another with increasing and decreasing pressure. From a series of measurements

curves of temperature against p_n were obtained for the These are straight lines three types of cerium (Figure 3). parallel to one another. They show that an increase in purity leads to a decrease in the pressure of transformation at a given temperature and an increase in temperature of transformation at a given pressure. The "real" hysteresis can be found by carrying out experiments with different hydrostatic conditions to allow for the effect of friction. Electrical resistance measurements can be used to show polymorphic transformations. Figure 4 shows a curve of electrical resistance against pressure for cerium Nr 1. This shows a hysteresis at 20.5 °C of 1 600 kg/cm². Further experiments showed that "real"

hysteresis was 1 550 kg/cm. Figure 5 shows the change in the total hysteresis with temperature. An increase in temperature decreases the width of the hysteresis loop. At 200 °C the width of the "real" hysteresis loop is less

Card2/3

80532

S/126/60/009/05/013/025

The Polymorphic Transformation of Cerium Under Pressure

than the experimental error. It is further shown that at temperatures greater than 280 °C and pressures greater

than 18 500 kg/cm² no change in volume, i.e. no phase transformation of the first order, can take place. There are 5 figures and 10 references, 6 of which are English, 1 French and 3 Soviet.

ASSOCIATION: Institut fiziki vysokikh davleniy AN SSSR (Institute of High-pressure Physics of the Ac.Sc., USSR)

SUBMITTED: November 24, 1959

V

Card 3/3

21137

15 8500 1573,1137 11. 2214 **8/190/61/003/004/012/014 B101/B207**

AUTHORS:

Livshits, L. D., Genshaft, Yu. S., Markov, V. K., Ryabinin,

Yu. N.

TITLE:

Compressibility and phase diagram of polytetrafluoro ethylene

at high pressure

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 4, 1961, 624-629

TEXT: This paper deals with the study of the behavior of polytetrafluoro ethylene (fluoroplast-4, teflon) at high pressure and high temperature considering the fact that this material is widely applicable in high-pressure engineering. Moreover, measurements were made in a wider range of temperature and pressure than listed by the published data available. The following parameters were determined: 1) the volume compressibility in the piezometer according to the piston displacement method. The error of pressure measurement was +150 kg/cm²; the error of volume decrement determination was less than 5%. By means of the apparatus described in Ref. 6 (L. D. Livshits et al., Fizika metallov i metallovedeniye (Metal Physics and Metallography). Metallurgizdat, Sverdlovsk, 2, 726, 1960), pressures

X

Card 1/6

21137

Compressibility and ...

S/190/61/003/004/012/014 B101/B207

up to 30,000 kg/cm² and temperatures up to 300°C could be reached. 2) The linear compressibility was measured by a recording method similar to that developed by P. W. Bridgman (Ref. 7, see below). Measurement was carried out under hydrostatic conditions. Teflon rods, 57 and 200 mm long, density 2.21 g/cm³ served as samples. 3) The isobaric measurement of the thermal expansion of teflon at different pressure was measured with the same apparatus. The phase diagram, Fig. 2, was plotted on the basis of the data obtained. The phases were denoted according to C. E. Weir (Ref. 2, below). The triple point of the diagram lies at 5000 kg/cm² and 66°C. The Table shows the volume decrements $\Delta v/v_0$ at different pressure and temperature. The following was found: 1) The compressibility of phase III is considerably smaller than that of I and II. 2) The polymorphic transition from II to III (at 20° C) is accompanied by a jump of volume change by 2%. The transition from I to II (at 90°C) is accompanied by a jump of volume change by 2%. Fig. 3 indicates that the jump in volume change decreases with increasing temperature. The blurredness of the II-III transitions due to hysteresis may be reduced if the sample is kept for 1 hr at constant pressure. 3) Between $30-100^{\circ}$ C and up to 4000 kg/cm^2 pressure in phase I small jumps were observed in the linear and volume compressibility, that were ir-Card 2/6

21137

S/190/61/003/004/012/014 B101/B207

Compressibility and ...

reproducible and due to several superimposing crystalline transformations of teflon. 4) These irregularities and the curvature of the I-II transition curve indicates the presence of a further singular point at 65°C and 4000 kg/cm². There are 3 figures, 1 table, and 8 references: 1 Soviet-bloc and 7 non-Soviet-bloc. The 4 references to English language publications read as follows: P. W. Bridgman, Proc. Amer. Acad. Arts and Sci., 76, 3, 55, 1948; C. E. Weir, J. Res. NBS, 50, no. 2, 1953, R. P. 2395; R. J. Beecroft, C. A. Swenson, J. App. Phys., 30, 1793, 1959; P. W. Bridgman, Proc. Amer. Acad. Arts and Sci., 58, 165, 1923.

ASSOCIATION: Institut fiziki vysokikh davleniy AN SSSR (Institute of High-

pressure Physics, AS USSR)

SUBMITTED: August 17, 1960

Fig. 2. Phase diagram of teflon. Legend: o) data obtained by means of piston displacement; Δ) data of linear compressibility at constant temperature; X) data of isobaric measurement; ---: hysteresis.

Card 3/6

\$/056/62/043/004/020/061 u102/B180

AUTHORS: Lifehits, L. D., Genshaft, Yu. S., Markov, V. K.

TITLE: The cerium constitution diagram in the range from 20 to 350°C under pressure up to 80.103kg/cm²

PERIODICAL: Zhurnal eksperimental'hoy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1262 - 1267

TEAT: wim of the present investigations was direct observation of the young phase transitions predicted by Ye. S. Itskevich (ZhETF, 42, 1173, 1962) at high pressures and temperatures. Cubic face-centered cerium samples 0.5.0.5 mm² were used, with initial resistivity of 0.1 - 0.4 ohms. For the measurements up to 30.40 kg/cm² the device described in FMM, 9, 726, 1960 was used; at higher pressures the sample was heated directly by the measuring current. The phase transition was determined from the jump in resistivity. Its pressure dependence varied greatly at different temperatures and at rising and falling pressures. The height of the jump fell from 32-40% at room temperature to 10% at 200°C and 5-7% at 200-350°C. The Card 1/12

The cerium constitution diagram

\$\\056\62\0\3\004\020\061 \$1\02\\$190 .

The time dependence of the relative variation of relativity, $\Delta n/R$, is nonlinear—above 180°C, making extrapolations impossible, beyond this region. The results do not confirm the existence of a critical point below 350°C, they only show the existence of a minimum in the R(p) diagram above 50.10³ and of a maximum above 70.10³kg/cm². There are 5 figures.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nank SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: May 22, 1962

Fig. 5. Diagram of position of resistivity maximum (4,0) and minimum(0,0); 0,0: pressure is raised; 4,0: pressure is reduced.

Card 2/12

S/207/62/000/005/003/012 B108/B186

AUTHORS: Censhaft, Yu. S., Livshits, L. D., Ryabinin, Yu. N. (Moscow)

TITLE: Determination of the phase parameters of solid bodies at

high pressures by using the method of shifting a piston

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5,

1962, 107-116

TEXT: The known method by P. W. Bridgman (The Physics of High Pressure. London, 1949; The Compression of 46 Substances to $50,000~\rm kg/cm^2$. Proc. Am. Acad. Art. Sci., 1940, v. 74, no. 3) to determine the compressibility of solid bodies at $30,000~\rm kg/cm^2$ within the temperature range from 20 to 150° C is explicitly described. On the basis of experimental data, corresponding calculations were made for Pb, AgCl, CsCl, pyrophyllite, lithographic limestone, graphite, BN, Bi, and Tl. By means of this method data on the melting of substances under pressure can be derived from the discontinuity of volume, and the phase diagrams can be studied over wide ranges of temperature and compression. The temperature coefficient of volume expansion (β), depending on pressure, was determined for Pb, AgCl, graphite, BN, Tl, and Bi (Table 7). There are 1 figure and 7 tables.

Card 1/2

S/207/62/000/005/003/012 B108/B186

Determination of the phase...

SUBMITTED: July 11, 1962

Legend to Table 7: (1) p, kg/cm²; (2) graphite

	;			B-16*				
(1)	Pb	AgCl	Lingens (2)	BN	TI	1	111	
р, кГ,сяз				23 130	22-133	25 - 160	80	11.21
	20123°C	17-172°C	21131°C	•c	-•c	•	6	30-75 °C
1	90	28	25 25	35 20	92 88	23	40 32	40 38
5000 10000	80	21 56	21	9	85	22	27	46
15000	58	-74	15	i	80	32	22	62
20000	44	73	8	-2	74	58	24	86
25000	45	55	5	-2	69	i	22	125
30000	37	20	Ī	3	62	1	1	1

Card 2/2

S/120/63/000/001/036/072 E032/E314

AUTHOR:

Genshaft, Yu.S.

TITLE:

On the "now" and "old" pressure scales

PERIODICAL:

Pribory i tekhnika eksperimenta, no. 1, 1963,

141 - 142

TEXT: The discrepancy between the pressure scales given by Kennedy and La Mori (Progress in Very High Pressure Research, John Wiley and Sons, New York, 1961) (new scale) and that given by Bridgman (Proc. Amer. Acad. Arts and Sci., 1952, 81, no. 4, 169) (old scale) is noted. There appears to be a discrepancy between the resistivity and compressibility data. The discrepancy is now thought to be due to the fact that in the former case the pressures correspond to a transition to a denser modification, while in the second case the quoted pressures are the arithmetical averages of the transition pressures obtained with increasing and decreasing pressure, respectively. It is therefore concluded that comparison of the two scales will not indicate whether the old scale is subject to errors or not. The importance of hysteresis effects is emphasized. There is 1 table. Card 1/2

On the "now" and

S/120/63/000/001/036/072 E032/E314

ASSOCIATION:

Institut fiziki zemli AN SSSR

(Institute of Physics of the Earth of

the AS USSR)

SUBMITTED:

July 14, 1962

Card 2/2

GENSHAFT, Yu.S. (Moskva); LIVSHITS, L.D. (Moskva); RYABININ, Yu.M. (Moskva)

Determining the parameters of the state of solids under high pressures using the displacive piston method. PMTF no.5:107-116 S-0 *62. (MIRA 16:1)

L 10660-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP3001209

5/0078/63/008/006/1302/1306

AUTHOR: Livshits, L. D.; Genshaft, Yu. S.; Ryabinin, Yu. N.

TITLE: Phase diagram of crystal hydrates MgSO sub 4 at high pressures

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 6, 1963, 1302-1306

TOPIC TAGS: phase diagram, crystal hydrates of MgSo sub 4, polymorphic transition, phase transitions, MgSO sub 4

ABSTRACT: A phase diagram of the crystal hydrates of MgSO sub 4 was constructed from measurements obtained by the "piston displacement" method; data was obtained at 20 degrees by volume compressibility of salts which were previously dehydrated at 200 degrees. A polymorphic transition in the region of 4500 kg/sq.cm. pressure was discovered. The phase transition in the crystalline hydrates is sensitive to the quantity of water of crystallization; by decreasing the content of bonded water, the discontinuities in the volume upon compression are blurred, down to a complete disappearance of separate transitions. There is a limit in the piston displacement method above which the liberated water interferes with the measurement of change in volume decrease with pressure. Actual crystalline conditions of the salt under pressure can be studied by X-rays, but it may be assumed that

Card 1/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514720018-3

L 10660-63

ACCESSION NR: AP3001209

2

significant volume change with the transitions indicates important structural changes in the material. Orig. art. has: 3 figures.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of chemical Physics, Academy of Sciences SSSR). Institut fiziki Zemli Akademii nauk SSSR (Institute of Earth Physics, Academy of Sciences SSSR)

SUBMITTED: 28May62

DATE ACQD: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 004

OTHER: 003

kes/km

L 18355-63

ACCESSION NR: AP3003960

\$/0057/63/033/007/0867/0871

AUTHOR: Genshaft, Yu.S.

TITLE:

Possibility of employing transition pressure scale reference points

SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.7, 1963, 867-871

TOPIC TAGS: pressure hysteresis, transformation pressure, polymorphism

ABSTRACT: The discrepancies between the values of polymorphic transition or transformation pressures determined on different samples and in different laboratories are discussed with particular reference to those for Tl, Cs and Bi as measured by different investigators. A qualitative argument is given indicating that the average of the transition values obtained with increasing and with decreasing temperature or pressure, commonly taken as the "true" value in the presence of hystoresis, is not the thermodynamic equilibrium value, but that the latter lies nearer the high temporature or the low pressure edge of the hysteresis region. The differences between the transition pressures observed for the same first order transition are ascribed to the presence of hysteresis, the magnitude of which depends on sample purity and apparatum configuration. It is suggested that a more reliable calibration

Card 1/2

L 18355-63

ACCESSION NR: AP3003960

5

of the high pressure scale can be obtained by the use of melting points of the pure substances and various physical quantities that depend on pressure, such as compressibility and electrical conductivity. "In conclusion I convey my deep gratitude to Ye.G.Ponyatovskiy for making available his data on the InSb phase diagram, and also to Yu.N.Ryabinin, L.D.Livshits, and V.K.Markov for discussing the work and for valuable suggestions." Orig.art.has: 1 figure and 1 table.

ASSOCIATION: Institut fiziki zemli, Moscow (Geophysical Institute)

SUBMITTED: 13Jun62

DATE ACQ: 07Aug63

ENCL: 00

SUB CODE: PH, CH

NO REF SOV: 006

OTHER: 011

Card 2/2

ACCESSION NR: AP4043369

S/0181/64/006/008/2449/2452

(Þ)

AUTHOR: Yevdokimova, V. V.; Genshaft, Yu. S.

TITLE: Compressibility of cerium up to 30,000 kg/cm²

SOURCE: Fizika tverdogo tela, v. d. no. 8, 1964, 2449-2452

TOPIC TAGS: cerium, cerium compressibility, a cerium compressibility,

ABSTRACT: The compressibility of y-cerium was studied by the "pistondisplacement" method and by the x-ray diffraction method. From the results of experiments, the dependence of the volume decrement $\Delta V/V_0$ on pressure for both a-cerium and y-cerium was determined. The behavior of the y-cerium (low-pressure phase) was found to be abnormal, i.e., its compressibility increased with increased pressure. The a-cerium (high-pressure phase) behavior under pressure was normal, i.e., the compressibility declassed with pressure increase. The polymorphic transformation aty under pressure was found to take place at approx 7000 kg/cm 2 , but residual y-cerium was found at pressures as high as 14,000 kg/cm², and the a-carium phase can be preserved under conditions

Card 1/2

L 11295-65
ACCESSION NR: AP4043369

of very slow prossure decrease for as long as one or two years. Orig.

ASSOCIATION: Institut fiziki vy*sokikh davleniy AN SSSR, Hoscow
(Institute of Physics of High Pressures, AN SSSR)

SUBMITTED: 04Mar64 ATD PRESS: 3104 ENCL: 00

SUB CODE: IC, ME NO REF SOV: 008 OTHER: 009

KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; GENSHAFT, Yu.S.; KRASNOSHCHEKOV, V.V.

Interaction of silicohydrofluoric acid with benzidine. Zhur.neorg.khim.
9 nc.1:183-186 Ja '64. (MIRA 17:2)

ACCESSION NR: AP4025911

8/0056/64/046/003/0821/0824

AUTHORS: Livshits, L. D.; Genshaft, Yu. S.

TITLE: Nonlinear dependence of the magnetic transformation temperatures of two invar alloys on the hydrostatic pressure

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 821-824"

TOPIC TAGS: Curie temperature, magnetic transformation temperature, phase transition, second order phase transition, invar, coelinvar, elinvar, Curie temperature pressure dependence, high pressure ferromagnetic transformation

ABSTRACT: The pressure dependence of the Curie temperature of the elinvar and coelinvar alloys was studied at pressures up to 20 kbar as part of an investigation of second-order phase transitions under pressure. The relation

Card 1/4

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ACCESSION NR: AP4025911

 $\Delta \theta = \theta_p - \theta = -ap - bp^*$

(Θ_p — temperature of magnetic transformation at pressure p, Θ — temperature, a and b — constants) is found to hold for both alloys. Although such a nonlinear relation follows from the theory, previous experiments yielded only linear relations, probably owing to the smallness of the range of variation of the pressures employed and in some cases to the smallness of the effect itself. A tentative value $d\Theta/dR = 3-3.5 \times 10^{11}$ deg/cm is obtained for both alloys (R — interatomic radius, on the order of 2.5 Å). "The material for the samples was graciously furnished by G. I. Katayev, to whom the authors are deeply grateful. They also thank Yu. N. Ryabinin and R. Z. Levitin for interest in this work." Orig. art. has: 3 figures, 4 formulas, and 1 table.

Card 2/4

ACCESSION NR: AP4025911

ASSOCIATION: Institut fiziki zemli AN SSSR (Institute of Physics

of the Earth, AN SSSR)

SUBMITTED: 14Aug63 DATE ACQ: 16Apr64 ENCL:

SUB CODE: PH

NO REF SOV:

OTHER: 001

GENSHAFT, Yu.S.; NASEDKIN, V.V.; RYABININ, Yu.N.; PETROV, V.P.

Crystallization of basalt at the pressure of 25 kilobars and temperatures from 800° to 1300°. Sov. geol. 8 no.8:26-31 Ag 165. (MIRA 18:10)

1. Institut fiziki Zemli AN SSSR i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

Crystal modification of Elect On the press tragent, metallound, 19 no.3:461 Add Fr 165.	/ 133, 161, 1 (MHa 1844)
t. In titut fiziki Zemli an IST.	

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514720018-3

L 41068-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5010496

UR/0056/65/048/004/1050/1053

AUTHOR: Livshits, L. D.; Genshaft, Yu. S.

TITLE: Shift of Curie temperature of gadolinium under hydraulic compression up to 35 kbar

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1050-1053

TOPIC TAGS: gadolinium permeability, gadolinium Curie point, gadolinium permeability pressure shift, gadolinium Curie temperature shift

ABSTRACT: The pressure dependence of permeability was plotted at a constant temperature at a frequency of 500 cps and an effective field intensity of 5-6 oe. The pressure was applied through a silver chloride medium by the piston displacement method. The specimens were miniature toroids of polycrystalline metal turned from a cast stock of gadolinium with the following admixtures: It and Tb (0.1%), Ca (0.02%), Fe (0.01%), and Cu (0.005%). The temperature fluctuations during the experiment did not exceed 0.5-1C. The pressure dependence curve of the Curie point was plotted on the basis of twelve independent determinations of the pressure points at which the specimen changed to the paramagnetic state. As expected this

Card 1/2

L 41068-65

ACCESSION NR: AP5010496

curve was a straight line with a proportionality factor of 1.34 ± 0.06 degrees per kbar. The mean deviation of the experimental points from the straight line was 0.80 in temperature and 0.6 kbar in pressure. A discontinuity of the curve within the 21-26 kbar pressure range of the curve, as described by Robinson and others (Phys. Rev., 134, 1964, A187), was not observed. Orig. art. has: 3 figures and 1 formula.

ASSOCIATION: Institut fiziki zemli Akademii nauk SSSR (Institute of Physics of the Earth, Academy of Sciences, SSSR)

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: SS,EM

NO REF SOV: 005

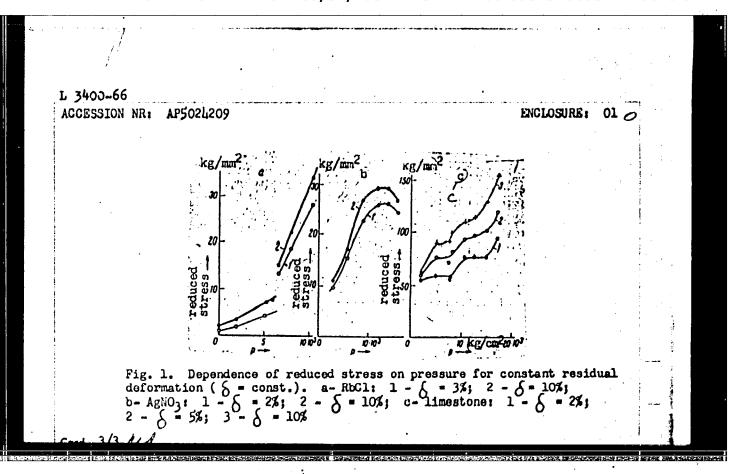
OTHER: 007

ATD PRESS: 3232

| Card 2/2

3400-66 EPA(8)-2/ENT(B)/ENP(W)/EFF(C) CCESSION NR: AP5024209	UR/0020/65/164/003/0541/0544
THORS: Livshits, L. D.; Beresnev, B. I.;	
ITLE: Change in strength of several substa ransitions under pressure	nces in the region of polymorphic 33
OURCE: AN SSSR. Doklady, v. 164, no. 3, 19	65, 541-544
OPIC TAGS: polymorphic transition, rubidiu alcium carbonate	m chloride, silver nitrate, limestone,
BSTRACT: The effect of pressure on RbCl, A nvestigation is an extension of previous wouthors (DAN, 161, 5, 1965). Axial compressigh hydrostatic pressures. The specimens wiameter, and had a length-to-diameter ratio eformed samples are presented and stress-st see Fig. 1 on the Enclosure). It is conclused different materials differently during presistance to compression of RbCl increases	ork on Bi-Sn alloys published by the sion of specimens was determined at sere of cylindrical shape, 8-10 mm in of 1 to 1.5. Photographs of the crain curves are shown graphically to ded that pressure affects the strength plymorphic transitions. Thus the
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L 3400-66 ACCESSION NR: AP5024209	and the same are a properly group through the property of the same to			/	
increases also, but more of pressure. Orig. art.	slowly, and th	nat of AgNO3 shows a and 1 photograph.	decrease with inc	rease	• :
ASSOCIATION: Institut f (Institute of Geophysics	iziki Zemli im.	O. Yu. Shmidta, Ak	ademii nauk SSSR		
SUBMITTED: Olfeb65	ENCL		SUB CODE: SS		
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NO REF SOV: OO3	OTHE	R: 001			



CIA-RDP86-00513R000514720018-3 "APPROVED FOR RELEASE: 08/31/2001

428

AUTHOR:

Genshtak, V.I., Candidate of Econom.Sci., (Ural Polytechnical

Institute.)

TITIE:

On scientific problems of the economics of the electrical industry. (O nauchnykh problemakh ekonomiki elektropromy-

shlennosti.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry) 1957, Vol. 28, No. 5, pp. 61 - 62 (U.S.S.R.)

ABSTRACT:

This letter is a contribution to discussion on articles by Nelidov and by Pel'tsman and Kanevskiy on economics in the electrical industry published in Vestnik Elektropromyshlennosti No. 9, 1956. The author is in general agreement with Nelidov, but does not agree that concrete economics should be applied to theoretical and (by implication) not to applied science. In the main, Nelidov states correctly the problems in the economics of the electrical industry and the organisation of undertakings but he does not include one of the most important tasks which is the characteristics and classification of production reserves. The second part of Nelidov's article and also the other article are concerned with training to which in the author's opinion more attention should be paid. No figures, no literature references.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720018-3"

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PHASE I BOOK EXPLOITATION

863

Genshtak, Vladimir Iosifovich and Gotlower, Valentin Mikhaylovich

Ekonomicheskaya effektivnost' vnedreniya novoy tekhniki (Increased Economic Rifliciency Esculting from the Introduction of Modern Technology)

Moscov, Izd-vo "Znaniya," 1958, 37 p. (Series: Vscaoyumoye obshchestvo po resprostraneniyu politicheskikh i nauchnykh znaniy. Seriya III, 1958, no. 35)

80,000 copies printed.

Spongoring Agency: Vsesoyumoya obshchestvo po rasprostraneniya politicheskikh i nauchnykh znaniy.

Scientific Ed.: Bayev, L. K.; Ed.: Falaleyeva, T. F.; Tech. Ed.: Gabin, M. I.

FURPOSE: This pamphlet is intended for economists and students of economics interested in certain economic aspects of engineering and the modernisation of industrial equipment.

COVERAGE: The authors show that the productivity of labor can be increased only on the basis of continuous technical progress and the introduction of modern scientific and engineering methods in all branches of industry. Individual problems connected with the increased economic efficiency resulting from the

Card 1/3

Increased Economic Efficiency (Cont.)

863

application of new engineering methods and processes are still in the stage of discussion. The purpose of an economic analysis is to establish whether or not a given solution of an engineering problem is effective. The authors list and discuss the types of data which are used for measuring the effectiveness of modernization. Some of the data and statistics obtained from various plants in the Ural area are given and analyzed. Some data on over-all Soviet production are also given. For example, it is stated that in 1956 there were 1,780,000 pieces of machinery in use in the USER of which 18,2 per cent were over 20 years old. The engineering and economic advantages of modernization is reflected in 1) the increased productivity of equipment; 2) improved working conditions; 3) widened technological versatility of machines; 4) improved quality of machining; and 5) reduced operational expenditures. There are ten Soviet references.

TABLE OF CONTENTS:

Introduction

Production Engineering and Economics

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AVAILABLE: Library of Congress		
Card 3/3	GO/flc 11-24-58	

OBUKHOVSKIY, Yakov Mironovich; GENSHTEL', Ya.M., red.; YABLONSKAYA,L.V., red.; KARASEV, A.I., tekhn.red.

PERMITTING THE SOLD STREET

[Preparation of coal for coking] Sostavlenie ugolinykh shikht dlia koksovania. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 327 p. (MIRA 11:1) (Coke industry)

Use of products of primary tar from Ukrainian brown coals for disinfection. Zhur.mikrobiol.epid. i immun., supplement for 1956:36-37

(COAL-TAR PRODUCTS) (DISINFECTION AND DISINFECTANTS)

GENSIRUK, L.S. [Hensiruk, L.S.]

First results of scientific investigations of the Marine Hydrophysical Institute of the Academy of Sciences of the Ukrainian S.S.R. in Sevastopol. Geol. shur. 24 no.5:113-114 '64. (MIRA 17:12)

GTHUIRUK, 5. A.

GENSIMUK, G. A.: "The apruce forests of the eastern Carpathians, their growth and restoration." Moscow, 1955. Moscow Order of Lenin Acricultural Academy ineri K. A. Timiryazev. (Dissertation for the Degree of Cardidate of Agricultural Sciences)

SG: Knizhnava Leto is' No. 47, 19 November 1955. Moscow.

- GENSIRUK, S.A.

USSR/Forestry - Forest Biology and Typology.

K-1

Abs Jour

: Ref Zhur - Biol., No 20, 1953, 91438

Author

: Gensirult, S.A.

Inst

: Lvov Forest Technology Institute.

Title

: The Growth of Spruce Trees Under the Conditions of the Eastern Carpathians, as a Function of the Altitude Above

Scalevel.

Orig Pub

: Naucha, tr. L'vovsk. lesotekim. in-t., 1955, 2, 31-44.

Abstract

: Highly productive spruce (roves (row (locality classes 1, la, lb) at an altitude of 750-1200 m. Above 1200 m, the productivity of the tree stands decreases gradually. At an altitude of 1450 m, the spruce trees are mainly of locality dlass IV-V. In the years 1952-1954, 34 test grounds were chosen in the most typical, dense and never

Card 1/2

- 2 -

USSR/Forestry - Forest Biology and Typology.

K-1

Abs Jour : Ref Zhur - Biol., No 20, 1996, 91463

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720018-3"

cut spruce groves of Stanislarskaya and Zakarpatskaya Oblasts. It has been found that processes of humas fornation and mineralization at different altitudes above scalevel proceed unequally. In the middle and lower parts of the slopes (altitude 750 - 1050 m), they were more active than in the upper part (1400 - 1500 m). As a result, better soil conditions which are were favorable for the growth of wood stands arise here. It is shown that the causes of inferior (wowth of the spruce groves in the upper parts (above 1200 m) are a colder and more hund climite, less fertile soils and a shorter vegetative season. Optimal conditions for spruce tree Crowth are found in the Carpathians at an altitude of approximately 850 - 1110 m above sealevel. Tables of the growth rate according to the average height are given for model spruce plantations as a function of the altitude above scalevel. -- G.G. Abramashvili.

Card 2/2

USSR / Forestry. Forest Economy.

K

: Rof Zhur - Biologiya, No 22, 1958, No. 100163 Abs Jour

Author

REGER

: Gensiruk, S. A.

J 77 .

Inst Title : Moscow Agricultural Academy imeni K. A. Timiryazev : Characteristics of the Growth and Reproduction of

Carpathian Spruce Forests

Orig Pub

: Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1957,

No 31, 332-337

Abstract

: It has been established that with increase in elevation above sea level, the reserves of the Carpathian spruce forests gradually thin out, and the heights and diameters of the trees also are reduced (graph given). An altitude of 850-1100 motors above son level is optimal for the spruce. Success of the preliminary reproduction depends upon the degree of density of the maternal cover, which

determines not only the quantitative but also the

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16

CIA-RDP86-00513R000514720018-3" APPROVED FOR RELEASE: 08/31/2001

USSR / Forestry. Forest Economy.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100163

qualitative indices of self-seeding and the young growth. Success of the reproduction of hewn-out areas depends upon the steepness and exposure of the slopes and upon the soil. In wood-cutting areas on the southern slopes, having an angle of inclination of 25-30°, with underdeveloped rocky soils - reproduction, as a rule, is unsatisfactory. The wood-cutting areas on the northern and northeastern slopes are reproduced better due to favorable meteorological conditions. Percommendations on the preservation of the young growth and on the cutting down of trees are submitted. -- V. V. Protopopov

Card 2/2

BUKHALO, S.M., doktor ekonom. nauk; GENSIRUK, S.A., kand. sel'skokhoz. nauk; KRAVCHENKO, A.N., gornyy inzh.

Reduce the consumption of wood materials in the coal industry of the Ukraine. Ugol Ukr. 7 no.7:31-33 Jl 63. (MIRA 16:8)

(Ukraine-Wood)

GENSLER, A.A., insh.

Erection of a steam grassystem, Emerg. stroit no.1:22-29 165.

(MIRA 18:7)

S/079/60/030/009/006/015 B001/B064

2209. 5.3700

Dolgov, B. N. (Deceased), Golodnikov, G. V., Gensler, I.B.

AUTHORS: TITLE:

Catalytic Conversion of Tetraalkyl Silanes, III. Catalytic Dehydrogenation of Trimethyl Propyl-, Trimethyl Butyl-,

and Trimethyl Hexyl Silane

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 9,

pp. 2988-2995

TEXT: In continuation of their previous paper (Ref. 2), the authors studied the dehydrogenation of silicon hydrocarbons of the series $(CH_3)_3SiR$, $(R = C_3H_7, C_4H_9, C_6H_{13})$. The investigations were carried out with the catalyst used in the previous investigation (Ref. 2) by Yu. A. Gorin and S. M. Monozon and placed at the authors' disposal. The tetraethyl silane passed through over this catalyst at 500-600° (volume rate 30) was not dehydrogenated: Besides unchanged tetraethyl silane, triethyl silane and diethyl silane, that are formed by the splitting off of ethylene, were detected (Table 1). The gaseous products consisted of hydrogen, saturated hydrocarbons and ethylene. The silanes of the series Card 1/3

Catalytic Conversion of Tetraalkyl Silanes. \$/079/60/030/009/006/015 III. Catalytic Dehydrogenation of Trimethyl B001/B064 Propyl-, Trimethyl Butyl-, and Trimethyl Hexyl Silane

(CH3)3SiR, however, contain no ethyl radicals and can therefore be dehydrogenated with the above catalyst. Table 2 shows the optimum conditions of the dehydrogenation of trimethyl butyl silane, and Table 3 those of the dehydrogenation of trimethyl propyl silane (depending on the temperatures and volume rates), as well as the yields of the reaction products. The reactions carried out at temperatures above 570°C in the presence of a catalyst proceeded according to Scheme 2 with the bonds C - C and C - Si undergoing cleavage. Only by multiple fractional distillation, in a rectifying column, it was possible to separate the fraction boiling between 84.0 and 84.5 C that (owing to the thiocyanogen number) contained 91.1% silicon olefin. The three intensive lines of the Raman spectrum of the fractions enriched with the silicon olefin are probably caused by the isomers (CH3)3SiCH=CHCH3 and (CH3)3SiCH2CH=CH2. The dehydrogenation product of trimethyl propyl silane appears, according to its spectral analysis, as in the case of trimethyl butyl silane (Ref. 2), to consist for the major part of the isomer of silicon olefin that contains the double bond in

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Catalytic Conversion of Tetraalkyl Silanes. S/079/60/030/009/006/015 III. Catalytic Dehydrogenation of Trimethyl B001/B064 Propyl-, Trimethyl Butyl-, and Trimethyl Hexyl Silane

α-position to the silicon. A temperature of 540°C and the volume rate of 45 proved to be the optimum reaction conditions for the dehydrogenation of trimethyl hexyl silane (Table 4). Also here, the Raman spectrum shows in all cases the frequencies characteristic of the double bond. There are 8 tables and 17 references: 8 Soviet, 6 US, and 3 German.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED: October 2, 1959

Card 3/3

GENSOR, F.

The television receiver Carmen 4112 U. Tech praca 15 no.1:60-61 J 163.

TSORFAS, S., inzh.; GENSYUROVSKIY, A., inzh.

Flour for the macareni industry. Muk.-elev. prem. 24 no.10:13-15 0 158. (MIRA 11:12)

1. Upravleniye mukemel'ne-krupyanykh i kembikormovykh predpriyatiy Ministerstva khlebepreduktev SSSR. (Macaroni)

L 15817-66 EWT(1)/EWT(m)/FS(v)-3

SCTB/DIAAP

DD

ACC NR: AP6003255

SOURCE CODE:

UR/0020/65/165/006/1416/1418

AUTHOR: Paribok, V. P.; Genter.

ORG: Institute of Cytology, Academy of Sciences SSSR (Institut tsitologii Akademii nauk SSSR)

TITLE: The role of an oxygen-replacing gas in a quantitative study of oxygen ef-

fect

SOURCE: AN SSSR. Doklady, v. 165, no. 6, 1965, 1416-1418

TOPIC TAGS: radiation injury, plant injury, plant respiration, ionizing irradiation, radiation protection

ABSTRACT: The effect of x-irradiation (50 r/min) on the growth of the main root of bean shoots (Vivia faba) was studied using the following gases in the medium: 02 plus 1% N_2 and other inert gases, and specially purified N_2 and argon. The gasecus medium was introduced into the chamber 10 min prior to irradiation and the plants were removed 5 min following irradiation. Addition of N2 or Ar to the oxygen decreased the damaging effects of irradiation in that the growth of bean shoots was

Card 1/2

L 15817-66

ACC NR: AP6003255

much greater when these gases were added than when 0_2 was solely present. Further more, this protective action only applies to the O2-dependent part of radiation damage since the effect was absent in the absence of 0_2 (in a vacuum). These experiments indicate that in studying the radiosensitizing effects of O2 as a function of its concentration it is necessary to use other methods than the addition of inert gases to vary the O₂ concentration in the medium in forms such as plants and insects, in which the O₂ is carried to the cells via channels too narrow for the replacing gases. The authors thank Academician Yu. B. Khariton for discussion of the work and advice. Orig. art. has: 2 figures.

SUB CODE: 06/

SUBM DATE: 17Jan65/

ORIG REF: 005/

OTH REF: 005

L 20694-66 ENT(m) ACC NR: AP6007763 SOURCE CODE: UR/0205/66/006/001/0097/0100

29

AUTHOR: Paribok, V. P.; Genter, Ye. I.

ORG: Institute of Cytology AN SSSR, Leningrad (Institut tsitologii AN SSSR)

TITLE: The radiation protection effect of inert gases and low molecular narcotics.

5. The radiation protection effect of lower monoatomic alcohols in x-ray irradiation of bean seedlings

SOURCE: Radiobiologiya, v. 6, no. 1, 1966, 97-100

TOPIC TAGS: irradiation resistance, irradiation damage, radiation sensitivity, x ray irradiation, radiation protection

ABSTRACT: Five day old *Vicia taba* bean seedlings of the Russkiy chernyy variety were immersed for two hours in alcohol solutions and irradiated in air, in nitrogen, or in nitric oxide diluted in nitrogen in order to compare the protective effect of alcohols with that of compressed gases. The specimens were irradiated by a RUM-11 alcohols with that of compressed gases. The specimens were filled with a given gas. device in hermetically sealed glass containers which were filled with a given gas. The dosage was from 50 to 800 rad (51 rad/min) and the filter was 3-mm Al + 5-mm

UDC: 577.391 : 628.58

Card 1/2

L 20694-66 ACC NR: AP6007763

glass (container wall); focussing distance was 60 cm. Inhibition in the growth of the main root was taken as the indicator of irradiation damage. Of the alcohols tested (methyl, ethyl, propyl, and butyl), methyl alcohol was found to have the greatest protective effect. The protective effect vanished when the alcohol was washed off the seedlings prior to irradiation and no protective effect was observed when the seedlings were immersed in alcohol following irradiation. In the case of ethyl alcohol, the protective effect was less for specimens irradiated in nitrogen while for methyl alcohol the protective effect vanished completely. The protective effect of the alcohols remained for the case of irradiation in the presence of pure oxygen. It is concluded that the protective effect of alcohols cannot be ascribed to a lowering in oxygen content in the cell as a result of stepped-up expenditure of oxygen in the oxidation of the alcohols, and that the radiation protection mechanlams of alcohols and inert gases under pressure are dissimilar. Data on the protective effect of various concentrations of CH3OH, C2H5OH, C3H7OH, and C4H9OH in air and in nitrogen are presented in tabular form. While the mechanism underlying the protective mechanism of alcohols is not clear, it may involve an adsorption blocking of the radiosensitive structures in the cells which retards the radiosensitizing action of oxygen. Orig. art. has: 2 tables and 1 figure.

SUB CODE: ATD PRESS: 4223 card 2/2 3/

SUBM DATE: 12Jun64/

ORIG REF: 010/

OTH REF:

CRUNER, Matilda, ing.; GENTILIZZA, Mirjana; FILAJDIC, Mirko, dr ing.

A colorimetric method of the determination of protein in milk by the use of the "Orange G." Kem ind 10 no.7:183-189 Jl '61.

l. Zavod za poznavanje i analizu zivotnih namirnica Tehnoloskog fakulteta Sveucilista u Zagrebu, Zagreb.

CENTILLI, J.

Further success of the scientific works of the Geographical Institute of the Slevak Academy of Sciences abroad. p. 315.

GEOGRAFICKY CASOPIS. (Slevenska akademie vied. Zemepisny ustav) Bratislava, Czecheslevakia

Vel. 10, no. 4, 1958

Menthly list of East European Accessions (EEAI) LC. Col. 9, No. 1 January 1960 Uncl.

YUGOSLAVIA

FUGAS, Mirka; GENTILIZZA, Mirjana; VALIC, F. and VERNOVNIK, S.; Institute for Medical Research and Occupational Medicine (Institut za medicinska istrazivanja i medicinu rada,) Zagreb.

"Air Pollution Studies and Atmospheric Sediment Analysis in the City of Zagreb."

Magreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 16, No 3, 1965; pp 215-226.

Abstract [English summary modified,: Review of one year's data* on air pollution monitoring in Zagreb reveals that the city is one of the most heavily polluted industrial cities in Europe at this time. Presentation of data on types of atmospheric impurities, correlations with meteorological conditions and seasons of year. Plan, photograph, 3 tables, 5 graphs; 1 Yugoslav and 7 Western ref's; ms rec 30 Jan 65.

*1 Apr 1962 - 31 Mar 1963

1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720018-3"

FUGAS, Mirka; GENTILIEZA, Mirjana; VALIC, F. and VERMOVER, S.; Institute for Medical Research and Occupational Medicine (Institut sa medicinska istrazivanja i medicinu rada,) Zagreb.

"Air Pollution Studies in the City of Lagreb. Part Two. Determination of Concentrations of Sulfur Dioxide and Smoke."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 16, No 3, 1965; pp 227-249.

Abstract [English summary modified]: Data on SO₂ and smoke concentrations in Tagreb as measured daily for 12 months at 4 locations. Domestic heating furnaces were most culpable and caused extremely heavy pollution especially during winter time, suggesting the great potential value of centralized furnaces by block rather than old individual building system. Map, tables, 10 graphs; 1 Yugoslav and 11 Western references; ms rec 30 Jan 65.

A new method of femming with continuousles. p. 1 (Metalurgia Si Constructia De Masiri. Vol. 1, no. 8, No. 19 %. Securesti, Remania) Konthly Index of East suropean Accessions (ELE) 10. Vol. 7, no. 2, February 1958

R/009/60/000/005/001/003 A124/A026

AUTHOR:

Gențiu, Iuliu, Engineer

TITLE:

Contributions to Surface Alloying and Plating by Casting

PERIODICAL: Metalurgia și Construcția de Mașini, 1960, No. 5, pp. 390 - 395

The author presents results of some experiments made at the ITCME on the application of an external alloyed layer on component parts of steel and cast iron by casting, and results of some experiments of plating by casting. Brief reference is made to the procedure of surface alloying by casting. Experiments were made with paralle-piped steel shapes and cast iron parts. The molds and cores were mixed of the usual materials. The cores were "painted" with alloying materials of different composition and thickness, such as chromium, mangamese, nickel and aluminum. Water glass, bakelite lacquer and molasses were used as binders. The recipes were mixed as follows: a) On the basis of Cr and Ni: 60% Fe-Cr powder, 20% Ni powder and 20% water glass: b) on the basis of Mn: 80% Fe-Mn powder and 20% water glass; and c) on the basis of Al: 80% Al and 20% water glass. The alloying "paint" was applied to the cores by: a) spraying b) a brush, or c) spreading out with a stick. The thickness of the "paint" was

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R/009/60/000/005/001/003 A124/A026

Contributions to Surface Alloying and Plating by Casting

2 mm and 4 mm, respectively. After painting, the cores were slowly dried in a furnace at 140°C. Two types of basic materials were used for the experiments: steel parts and cast iron parts. The steel parts were made of carbon steel with a content of 0.7 - 0.8% and 0.6 - 1.4% Mn, produced in electric furnaces. The casting temperature of the steel ranged between 1,520 and 1,620°C. The cores were painted with Cr + Ni, Mn and Al alloying materials. Best results were obtained with the Cr + Ni alloying paint at a temperature of 1,550 - 1,600°C, at which the most advantageous ratio of \$16 ... 1/20 between the alloying paint and the minimum of molten metal enclosing the alloying paint was achieved. Mn paint showed less advantageous results because of the great casting-temperature difference of the steel and Fe-Mn paint. Ine most efficient alloying temperature was found to be 1,500 - 1,520°C, at which a ratio of $\frac{1}{8}$ - $\frac{1}{10}$ was achieved. Experiments with Al paint revealed approximately the same results as the Mn paint. At a 2 mm thick layer of Al paint, a 0.5 mm thick alloyed layer was obtained. The cast-iron parts were made of "Fe 21" grey-cast iron molten in revolving furnaces and cast at a temperature of 1,360 - 1,380°C. These parts were alloyed with Mn and Al paints. The results of these two alloys, so similar to each other, were less efficient as in case of steel parts. Several experiments were made with

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CIA-RDP86-00513R000514720018-3

R/009/60/009/005/001/003 A124/A026

Contributions to Surface Alloying and Plating by Casting

"Incorodal 1" steel sheets. The "OT 45" below as produced in a Héroult electric furnace and cast at a temperature of 1,540 - 1,560°C. This method is very efficient in case of plating the bottom and internal sections of steel parts. There are 6 figures and 4 references: 3 Stylet (2 translated into Rumanian) and 1

Card 3/3

Coring by shooting. St si Teh Buc 15 no.5:30-31 My '63

AUTHORS:

Kost, A. N., Gents, F.

507/79-28-10-29/60

TITLE:

Reactions of the Hydrazine Derivatives (Reaktsii proizwodnykh gidrasina) XIX. Condensations of 4-Amino (1,2,4)-Triazole With Esters (XIX. Kondensatsii 4-amino-(1,2,4)-

triazola so slozhnymi efirami)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr to,

pp 2773 - 2779 (USSR)

ABSTRACT:

As the exytriazole pyridazines with the cations of some metals can yield complex compounds the authors of this paper synthesized a number of these compounds (Refs 5,6). The mixed the corresponding keto ester with the 4-amino triazole and heated the mixture at 180-200° for 20-30 minutes, with the alcohol and the water being driven off. In a too energetic process, as is the case

with the 2-carbethoxy cyclopentanone (under the

formation of compound (III)) xylene, toluene or benzene were added and the accorropic mixture was slowly driven off. It is interesting to learn that the yield depends

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on the velocity of heating. In the case of a slow heating

Reactions of the Hydrazine Derivatives. XIX. Condensations of 4-Amino-(1,2,4)-Triazole With Esters

SOY/79-28-10-29/60

a resinification (Reaction Scheme 2) occurs. In the case of the 2-carbethexy cyclohexanone no condensation products are obtained. The condensation of the amino triazole with the α -formyl phenyl acetate also failed. Based on the results obtained the condensation of amino triazole was carried out with malonic ester. As it was not expected, also an excess malonic ester with two molecules amino triazole enters reaction and forms the N_1N_1 -di-(1,2,4-triazolyl-4)-malonamide (X). Cyclization products at the expense of the hydrogen atoms of the triazole nucleus could not be found. The structure of the diamide (X) was proved by the infrared absorption spectrum. The acetic solution of this diamide precipitates the ions cu^{2+} , Ki^{2+} and co^{2+} , but not Al²⁺, Cd^{2+} , Bi³ and Th⁴⁺ from the aqueous solution in the presence of sodium acetate. No precipitation takes place in alkalinemedium. This reaction does not take place so easily with ethyl malonic ester under the formation of compound (XI)(15,2% yield) and almost not at all with butyl malonic ester. In the reaction of

Card 2/3

Reactions of the Hydrazine Derivatives. XIX. SOV/79-Condensations of 4-Amino-(1,2,4)-Triazole With Esters

507/79-28-10-29/60

aminotriasole with diethyl oxalate the compound (XII) was obtained. This diamide precipitates the ions Cu2+, Mg2+ and Cd2+ in alkaline medium in the presence of

sodium tartrate, and in acetate medium the ions Cu²⁺, however, not Al3+ and Fe³⁺. The Syanethylation of 4-amino

triazole in alkaline medium is described. There are

14 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State

University)

SUBMITTED: September 11, 1957

Card 3/3

GENTIU, Iuliu, ing.; DUMITRESCU, Petre

The first Rumanian machine for the core forming through shooting. Metalurgia constr mas 14 no.1:26-30 Ja '62.

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CHERNYY, M.D.; GMMTS, I.P., retmensent; SNGAL', N.M., redaktor; ECGAN, V.V., tekhnichšekiy redaktor

[Construction and maintenance reeling machines in the silk industry]
Ustroistvo i obsluzhivanie motal'nykh mashin shelkovoi promyshlennosti.
Noskva, Gos. nauchno-tekhn, izd-vo Mininterstva legkoi promyshl.SSSR,
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(Silk manufacture) (Textile machinery)

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[Design, operation, and maintenance of the "Tekstima" warping machine] Ustroistvo, rabota i obsluzhivanie lentochnoi snoval'noi mashiny tekstima. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 79 p. (HIRA 12:12) (Looms)

mental engants and the remarks described and the state of the same sections have the minimum of the same sections.

NOVIKOV, N.A.; TEL'NOVA, V.M.; GENTS, I.P., FEDOROVA, Ye.F.

Boxes for the transportation of artificial silk . Standartizatisiic 25 (MIRA 14:3)

(Boxes—Standards)

(Boxes—Standards)

BORISOV, M.I.; BOGDANOV, N.P.; CENTS, N.N.; TAMM, A.I.; FILATOVA, I.T., red.; GOLICHENKOVA, A.A., tekhn.red.

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GENTSCHEV, T.

Perivascular glycogen and barrier mechanisms in C.N.S. Dokl. Bolg. akad. nauk 18 no.3:267-270 165

1. Submitted on November 9, 1964.

L 02154-67 SOURCE CODE: BU/0011/65/018/003/0267/0270 ACC NR. AP6035988 CENTSCHEY, T. 22 ORG! none "Perivascular Glycogen and Barrier Mechanism in C.N.S." Sofia, Doklady, Bolgarskoy Akademii Nauk, Vol 18, No 3, 1965, pp 267-270 TOPIC TAGS: central nervous system, hematoencephalitic barrier, polysaccharide Abstract: English article The problems of vascular permeability, bloodbrain barrier, and their structural causes are among the current problems of experimental neurology. A careful check of the scientific literature showed that the problem of the barrier mechanism in the central nervous system is still a wide open question snd, consequently, the author decided to turn his attention to unstable metabolic substances whose presence within the nerve : tissue is difficult to reveal by morphological means. This article describes a detailed study of glycogen deposits around the vessels of the C.N.S. utilizing a new technique described elsewhere (T. Gentschev, Acts histochem., 12, 1961, 330-336). This new approach avoids the inconveniences of arterial perfusion and, at the same time, reduces the danger of postmortal hydrolysis of glycogen to a minimum. Tests on five guinea pigs, 40 mice, and 15 rats (suddenly frozen in liquid oxygen) showed that some vessels are indeed surrounded by a "glycogen sheet" while others are not. This seems to indicate that permeability and barrier functions within the C.N.S. can be also performed without the presence of a glycogen sheet. This paper was presented by Academician G. Usunoff on 9 November 1964. Orig. art. has: 3 figures. [JPRS]
SUB CODE: 96, / SUBM DATE: 09Nov64, / SOV REF: 001 / OTH REF: 007
Cord 1/1 A CONTRACTOR CONTRACTOR DE REFERENCIES CON DESENDANTE REPORTER DE SANDRE DE LA CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR DECONTRACTOR DE CONTRACTOR DE CO

EWP(k)/EWT(m)/T/EWA(d)/EWP(w)/EWP(t) JD/HW L 20737-66 SOURCE CODE: UR/0122/66/000/003/0067/0069 AP6010133 ACC NR AUTHOR: Kats, R. Z. (Candidate of technical sciences); Zamanskaya, F. P. (Engineer); Gentse, M. V.; Khoroshko, V. P.; Kashkina, S. T. ORG: none 30 TITLE: Explosive strengthening of G13L steel IJ SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 67-69 TOPIC TAGS: high manganese steel, explosive strengthening, austenitic steel, steek strengthening / G13L steel ABSTRACT: \Explosive strengthening of G13L steel (0.9-1.4% C, 11.0-14.0% Hn, 0.4-1.0% Si, 0.2% Cr, 0.2% Ni) used for railroad frog-points has been investigated. Strengthening was done either by detonation of a charge placed directly on the frog-point or by impact of a plate activated by an explosion. In both methods the frog-point had to be coated with a layer of clay to prevent the formation of small surface cracks. The explosion had a considerable effect on the physical and mechanical properties. It reduced the dimensions of the tested articles and increased the tensile strength from 62.4—82.4 to $103.1-110 \text{ kg/mm}^2$, and the yield strength from 39.0-45.4 to 83-99.0 kg/mm² at a satisfactory ductility. The surface hardness increased UDC: 621.787.044:669.15'74-194 Card 1/2

gradually art. has	decrea	ased to the orig gures and 2 table	inal value a	it a depth of	28 mm.	Orig.
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ORNISHVA, Revekba Venediktovna; SAVEL'YEVA, Klavdiya Tikhonovna; ARAPOV, YU.E., redsktor izdatel'stva; ERYHOCHKIKA, K.V., tekhnicheskiy redsktor

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1. Deystvitel'nyy chien Akademii nauk UzSSR (for Sarymaskov, Romanov-skiy, Korovin). 2. Deystvitel'nyy chien Akademii nauk Turkm. SSR (for Masson). 3. Chien-korrespondent Akademii nauk UzSSR (for TSukervanik, Korzhenevskiy).

(Arotmetic compounds) (Alkylstion)

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May 1959, Unclass.

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52-53 Je '55.

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CHICTAN, Constantin; GENUNCHE, Ana

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(Iron) (Radioisotopes) (Szilard-Chalmers reaction)
(Potassium ferricyznide) (Potassium ferrocyznide)

GERUREHE, A

R/003/60/011/005/018/023 A125/A026

AUTHOR:

None given

TITLE:

Meeting of the Chemical Industry

PERIODICAL: Revista de Chimie, 1960, Vol. 11, No. 5, pp. 299 - 302

TEXT: In the meeting on "Radioisotopes in Research and Chemical Industry", held on March 7 - 8, 1960, organized by Sectia Chimie - Comisia de Radiochimie (Chemical Section - Radiochemical Commission) led by Dr. G. Ioanid and opened by lecturer I. Drimus, President of the Chemical Section, and by Professor, Academician S. Titeica, the following papers were read: "Production of Radioactive Isotopes in Rumania" by C. Chiotan; "Production of Radioactive Iron From Complex Combinations by Sziflard-Chalmers Reactions" by C. Chiotan and A. Genunche; "Gammagraphical Sources Produced at the Institute of Nuclear Physics" by L. Ciplea, P. Florican and M. Oncescu; "Principles for Planning and Organization of the Radiochemical Laboratories" by Al. Busila; "Protection of the Organism Against the Noxious Action of Ionizing Radiations With the Aid of Some Chemical Compounds" by Gh. Furnica; "Decontamination Within the Laboratories Operating With Radioactive Isotopes" by I. Gaspar and D. Şerban; "Application of Radioac-

Card 1/2

Meeting of the Chemical Industry

R/003/60/011/005/018/023 A125/A026

tive Isotopes in Chemical Industry" by G. Ioanid; "Achievements at the I.F.A. in the Field of the Radiation Chemistry" by D. Stefanescu; "Ionizing Radiation, Initiator of the Oxidation Reaction of Paraffin by G. Ioanid, Al. Dragut, I. Drimus, A. Stoian and V. Dumitrescu; "Polymerization and 'Grafting' Operations Under the Influence of Ionizing Radiations , by B. Hlevca, F. Dragnea and M. Dinescu; "Sterilization of Medicines With Gamma Radiation" by D. Arizan, P. Adrian and A. Constantinide; "Synthesis of Medicines by Traced Atoms" by D. Arizan, P. Adrian and A. Constantinide; "Application of Radioactive Isotopes in Chemical Research" by S. Ionescu; "Achievements in Radiochemistry at the Chemical Institute of the Rumanian Academy, Cluj Affiliation and at the Department of Anorganic Chemistry of the Babes-Bolyai University" by R. Ripan, Cr. Marcu and N. Pascu; "Tempering Processes in the Szillard-Chalmers Fffect" by T. Costea; "Reactions of Isotopic Exchanges in Heterogeneous Medium" by I. Gainar; "Contributions to the Study of the Ionic Exchange on Cationic Resins. Utilization of Organic Solvents as Eluant Agents in the Cationic Exchange" by O. Constantinescu; "Works of the Researchers at the I.F.A. With Regard to the Utilization of Radioactive Isotopes in Analytic Chemistry" by T. Nascutiu; "Radiochemical Determinations in Ferrous Metallurgy" by Gh. Dumitrescu; and "Radiometric Measurings in Chemical Industry" by Gh. Ioanid.

Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514720018-3

J

Country: USSR

Category: Soil Science S. 1 Bioley

Abs Jeur: RZhBiol , N. 14 1958, No 63054

Author : Genuscy, 1.2.; Drobking, 1.V.; Stanbon, D.I.

: Boil Science Lastitute of the A.S. of the Uzbel. SSR : Microflora of Tollyrs of the Kunyo-Dor'inshoyo Plain Inst Title

Original: Tr. In-ta pachyaved AN Uzsan, 1956, vyp. 2, 219-239

Abstract: The general quantity of increorganisms in takyrs

(gray and rose) is considerably less than in other USSR soils (52,000 per 1 g of soil), although diverse physiolegical groups of microbes are represented. The oligenitre ludes occupy a primry position (10,000 per 1 d), being the basic nitrogen fixers in the takyrs Their axitum number is observed in the crust layer; it decreases gradually with depth.

: 1/4 Card

J-20

CIA-RDP86-00513R000514720018-3 APPROVED FORKRELEASE: 08/31/2001

Category: Soil Science Soil Biology

Abs Jour: RZBiol , No. 14, 1958, No. 63054

Bacilli form a large part of the total number of nderobes, which is characteristic for scals of southern regions of the spore-bearing arsicnifiers in the takyrs, Bac assenterious and Bac. idosus prediminate; they assimilate well the auxoniun-nitrate salts contained in the seal The denitrifiers are contained, in relatively high titers, in allost all horizons, often extending to a great depth; moreover, seasonal variations The natrifiers ere not observed in their numbers clestridia, butyrute and cellulose-decomposing bacteria and the actinonycotes are found in small quantities. On the whole, these nitrations appear to be the basic stmanhants of the first phase. Bitrifters

Card : 2/4

J

Country: USSR

Category: Soil Science. Seil Biology.

Abs Jour: RzhDiol., N. 14, 1958, No 63054

and as a result of the activity of alize. In cultures of 101-102 it is possible to find rectindecomposing and also desulfurizing bacteria. Fungi constitute about 10% of the total microbe repulation, which the perhadic hunddiffication of the takyrs pronotes. In surser, obviously, because if the extreme dryness of the soil, funci decrease in numbers or completely disappear. Azotobacter, nidule and lactate bacteria are not found in takyrs. Rise-colored takyrs, which receive a greater seasonal lamidification, are richer in microorganisms. ... N.M. Lazareva

Card : 4/4

APPROVED FOR BELEASE: 08/31/42001a Gc CIA-RDP86-00513R000514720018-3

Abs Jour: RZhDiol., N. 14, 1958, No 63027

Author : Genuscy, ...Z.

: 7.8: of the Uzbek SSR. Inst

: The Develogment of Takyrs and Takyr Continues in Title

Ancient Alluvial Plains.

Orig Pub: V. sb.: Ref. mauchno-issled. rabet pe lihl Theoredstvu.

Tashkent, IN UZSSR, 1957, 120-132

Abstract: Formation conditions for takyrs in the Kunya-Dar'

inskaya ancient alluvial plain (the lever reaches of the ann-Darya) are examined. The following stages

in change of plant associations on the old-aged

earths are noted: yantachno-itsygukovaya (honogeneous

blocks of talyr soils), keyrcukovnyn (sandy takyr soils

: 1/3 Card

J

Country: USSR

Category: Soil Schence Sail Genesis and Geography.

Abs Jour: RZhBiol., N 14 1958, No 63027

soils, into which they evolve under the action of biological factors -- the utilization of the takyrs

by higher plants -- N.I. Dazilevich

Card : 3/3

J-11

GERUSOV, A. Z., Cand Agr Sci -- (diss) "On the development of takyrs and takyr complexes on old alluvial plains." Tashkent, Pub House Acad Sci UzSSR, 1958. 15 pp (Acad Sci UzSSR, Tashkent Agr Inst), 150 copies (KL, 16-58, 122)

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OKNUSOV. A.Z.; KARIMOV, T.K.; GORBUNOV, B.V., kand.geologo-mineralog.
nauk, otv.red.; CHAYKA, G.V., red.izd-ve; SHARIKOVA, V.P.,
tekhn.red.

[Soil formation on old alluvial plains of Central Asia] O razvitii pochvennogo pokrova na drevnealliuvial'nykh ravninakh Srednei Azii. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR, 1958.

134 p. (MIRA 12:9)

(Soviet Central Asia--Soil formation)